=> fil lreg

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STRUCTURE FILE UPDATES: 14 OCT 2004 HIGHEST RN 762927-58-2
DICTIONARY FILE UPDATES: 14 OCT 2004 HIGHEST RN 762927-58-2

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when
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Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
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http://www.cas.org/ONLINE/DBSS/registryss.html

=> fil hcap

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FILE COVERS 1907 - 15 Oct 2004 VOL 141 ISS 17
FILE LAST UPDATED: 14 Oct 2004 (20041014/ED)

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FILE CONTENT:1840 - 10 Oct 2004 VOL 141 ISS 15

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************************************************************
*                                                          *
*     CASREACT now has more than  8 million reactions      *
*                                                          *
************************************************************
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Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> fil caold

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FILE COVERS 1907-1966
FILE LAST UPDATED: 01 May 1997 (19970501/UP)

This file contains CAS Registry Numbers for easy and accurate substance identification. Title keywords, authors, patent assignees, and patent information, e.g., patent numbers, are now searchable from 1907-1966. TIFF images of CA abstracts printed between 1907-1966 are available in the PAGE display formats.

This file supports REG1stRY for direct browsing and searching of all substance data from the REGISTRY file. Enter HELP FIRST for more information.

=> file stnguide

FILE 'STNGUIDE' ENTERED AT 15:30:39 ON 15 OCT 2004
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Oct 8, 2004 (20041008/UP).

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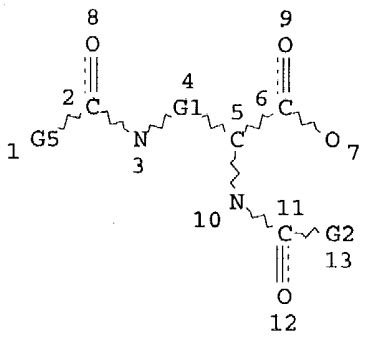

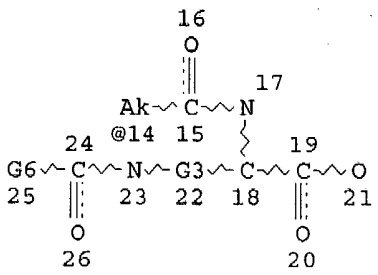

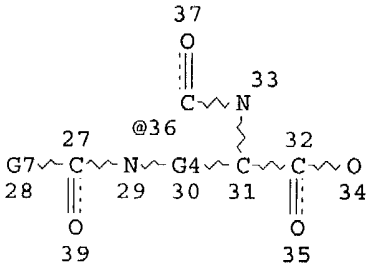

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VAR G7=CB/AK
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NSPEC IS RC AT 7
NSPEC IS RC AT 21
NSPEC IS RC AT 34
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 38

STEREO ATTRIBUTES: NONE
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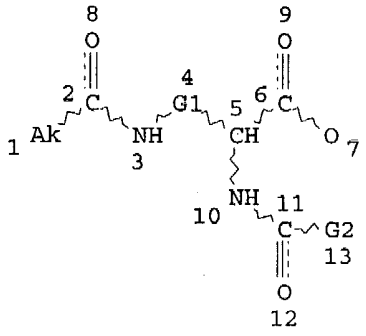

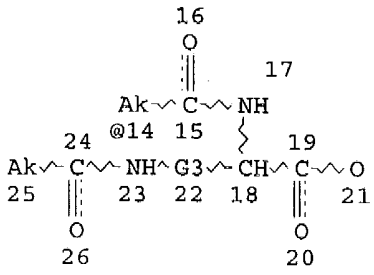

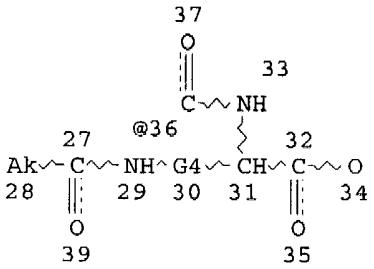

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DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
RING(S) ARE ISOLATED OR EMBEDDED
NUMBER OF NODES IS 38

STEREO ATTRIBUTES: NONE
L19 31 SEA FILE=REGISTRY SUB=L12 SSS FUL L17

=> d l21
L21 ANALYZE L19 1- LC : 4 TERMS

TERM #	# OCC	# DOC	% DOC	LC
1	30	30	96.77	CA
2	30	30	96.77	CAPLUS
3	7	7	22.58	CASREACT
4	2	2	6.45	CAOLD

********* END OF L21***

=> d que nos l20
L10 STR
L12 41 SEA FILE=REGISTRY SSS FUL L10
L17 STR
L19 31 SEA FILE=REGISTRY SUB=L12 SSS FUL L17
L20 5 SEA FILE=HCAPLUS ABB=ON PLU=ON L19

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=> d que nos l22
L10             STR
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L17             STR
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L22           1 SEA FILE=CASREACT ABB=ON  PLU=ON  L19


=> d que nos l23
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=> dup rem l20 l22 l23
DUPLICATE IS NOT AVAILABLE IN 'CAOLD'.
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FILE 'HCAPLUS' ENTERED AT 15:31:12 ON 15 OCT 2004
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PROCESSING COMPLETED FOR L22
PROCESSING COMPLETED FOR L23
L24             6 DUP REM L20 L22 L23 (1 DUPLICATE REMOVED)
                  ANSWERS '1-5' FROM FILE HCAPLUS
                  ANSWER '6' FROM FILE CAOLD

=> d iall hitstr 1-5

L24  ANSWER 1 OF 6  HCAPLUS  COPYRIGHT 2004 ACS on STN DUPLICATE 1
ACCESSION NUMBER:         2003:627026  HCAPLUS
DOCUMENT NUMBER:          139:337687
ENTRY DATE:               Entered STN:  15 Aug 2003
TITLE:                    New gemini organogelators linked by oxalyl amide:
                          organogel formation and their thermal stabilities
AUTHOR(S):                Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko;
                          Kimura, Mutsumi; Shirai, Hirofusa; Hanabusa, Kenji
CORPORATE SOURCE:         Graduate School of Science and Technology, Shinshu
                          University, Ueda, Nagano, 386-8567, Japan
SOURCE:                   Tetrahedron Letters (2003), 44(36), 6841-6843
                          CODEN: TELEAY; ISSN: 0040-4039
PUBLISHER:                Elsevier Science B.V.
DOCUMENT TYPE:            Journal
LANGUAGE:                 English
CLASSIFICATION:           22-10 (Physical Organic Chemistry)
```

Section cross-reference(s): 34, 66, 77
OTHER SOURCE(S): CASREACT 139:337687
ABSTRACT:
New gemini organogelators linked by an oxalyl amide that can be easily, effectively, and cheaply synthesized have good organogelation abilities and their cyclohexane gels have superior thermal stabilities; especially 7 possessing the
branched alkyl ester can gel at 0.7 wt% cyclohexane even at 70°C.

SUPPL. TERM: gemini organogelator oxalylamide organogel formation thermal stability
INDEX TERM: Gelation
Hydrogen bond
Sol-gel processing
Solvents
Thermal stability
(NMR and FT-IR on gelation of prepared gemini oxalyl-amide linked organogelators)
INDEX TERM: Gelation agents
(organo; NMR and FT-IR on gelation of prepared gemini oxalyl-amide linked organogelators)
INDEX TERM: **615584-80-0P 615584-81-1P**
615584-82-2P 615584-83-3P
615584-84-4P 615584-85-5P
615584-86-6P
ROLE: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(NMR and FT-IR on gelation of prepared gemini oxalyl-amide linked organogelators)
INDEX TERM: 52315-75-0, N-Lauroyl-L-lysine 292140-08-0 340811-55-4
521974-57-2 615584-87-7 615584-88-8 615584-89-9
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(NMR and FT-IR on gelation of prepared gemini oxalyl-amide linked organogelators)
REFERENCE COUNT: 36 THERE ARE 36 CITED REFERENCES AVAILABLE FOR THIS RECORD.
REFERENCE(S):
(1) Ajayaghosh, A; J Am Chem Soc 2001, V123, P5148 HCAPLUS
(2) Becerril, J; Chem Commun 2002, P738 HCAPLUS
(3) de Loos, M; Angew Chem, Int Ed 2001, V40, P613 HCAPLUS
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(18) Llusar, M; J Mater Chem 2003, V13, P442 HCAPLUS
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HCAPLUS
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HCAPLUS
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HCAPLUS
(33) van der Laan, S; Langmuir 2002, V18, P7136 HCAPLUS
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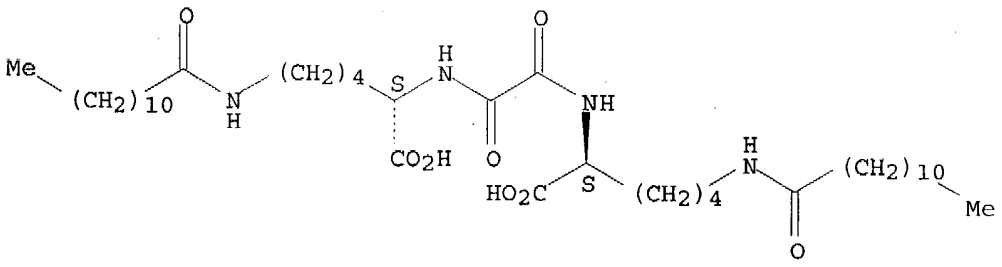
(35) Wang, G; Chem Eur J 2002, V8, P1954 HCAPLUS
(36) Willemen, H; Eur J Org Chem 2001, P2329 HCAPLUS

IT **615584-80-0P 615584-81-1P 615584-82-2P**
615584-83-3P 615584-84-4P 615584-85-5P
615584-86-6P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(NMR and FT-IR on gelation of prepared gemini oxalyl-amide linked organogelators)

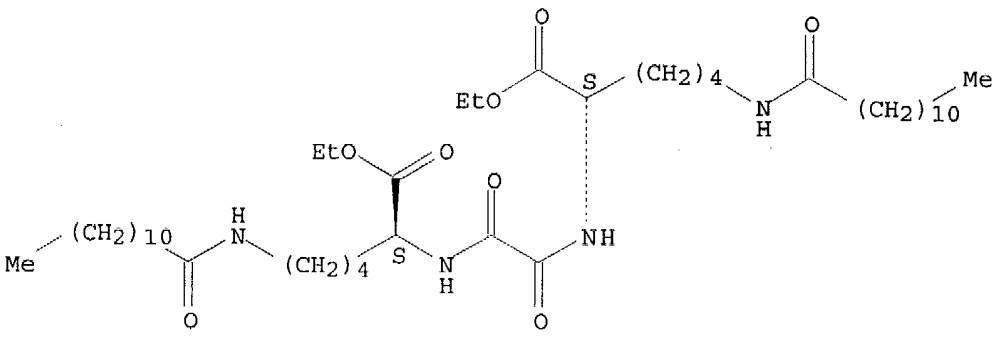
RN 615584-80-0 HCAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 615584-81-1 HCAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 615584-82-2 HCAPLUS

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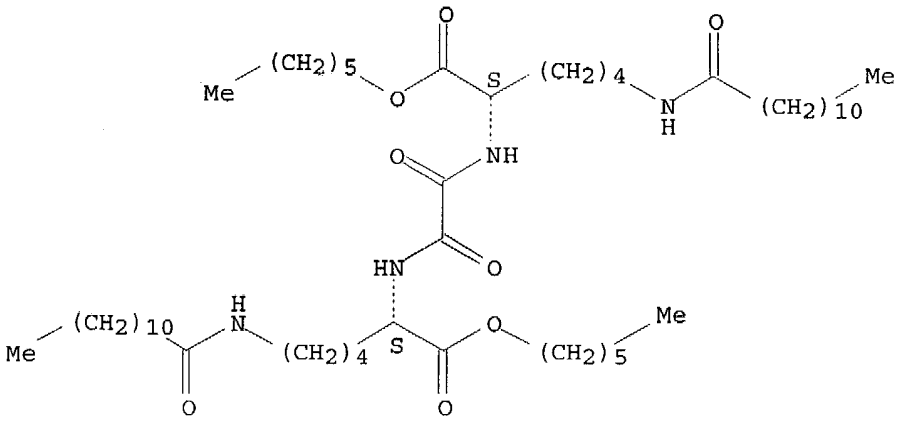
Absolute stereochemistry.



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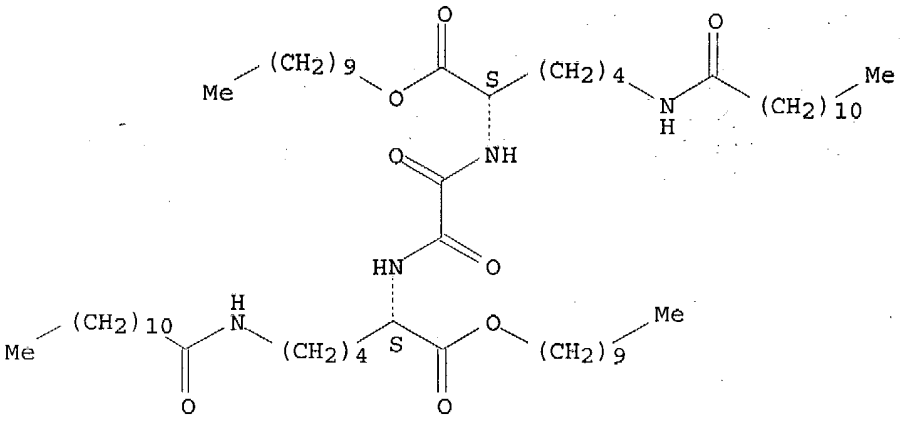
Absolute stereochemistry.



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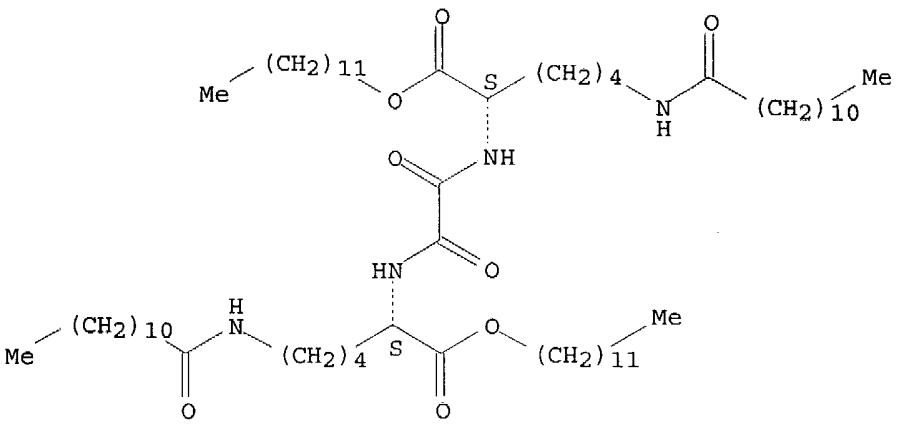
Absolute stereochemistry.



RN 615584-85-5 HCAPLUS
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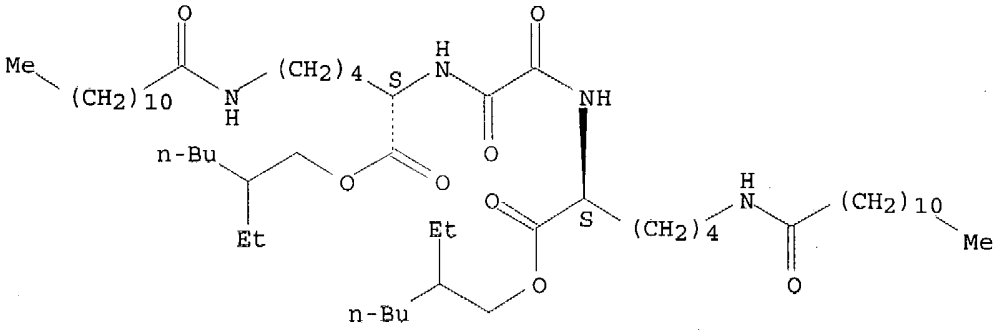
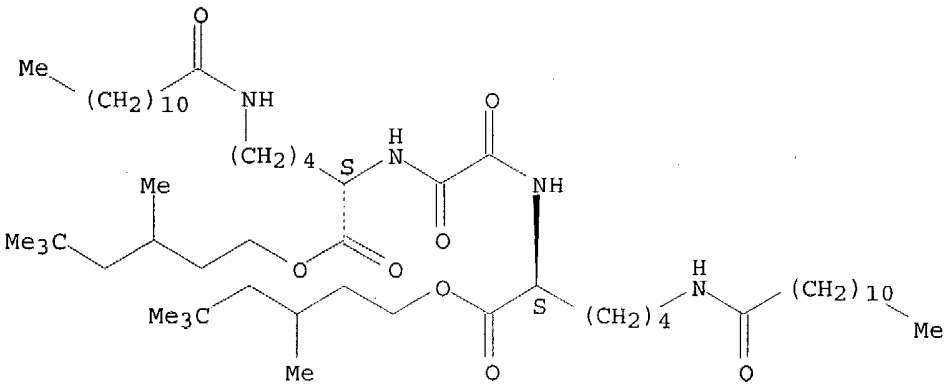
Absolute stereochemistry.



RN 615584-86-6 HCAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(3,5,5-trimethylhexyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L24 ANSWER 2 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 2003:878000 HCAPLUS
DOCUMENT NUMBER: 140:181736
ENTRY DATE: Entered STN: 10 Nov 2003
TITLE: L-Lysine based gemini organogelators: their organogelation properties and thermally stable organogels
AUTHOR(S): Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko; Kimura, Mutsumi; Shirai, Hirofusa; Hanabusa, Kenji
CORPORATE SOURCE: Graduate School of Science and Technology, Shinshu University, Ueda, Nagano, 386-8567, Japan
SOURCE: Organic & Biomolecular Chemistry (2003), 1(22), 4124-4131
CODEN: OBCRAK; ISSN: 1477-0520
PUBLISHER: Royal Society of Chemistry
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 34-2 (Amino Acids, Peptides, and Proteins)
Section cross-reference(s): 66

ABSTRACT:
Novel gemini organogelators based on L-lysine, in which two L-lysine derivs. are linked by different alkylene chain lengths through the amide bond, have been simply and effectively synthesized, and their organogelation abilities and thermal stabilities have been investigated. In a series of L-lysine Et ester derivs., the organogelation abilities decreased with increasing alkylene spacer length. In particular, bis(Nε-lauroyl-L-lysine Et ester)oxalyl amide, H23C11CONH(CH2)4CH(CO2Et)NH-COCO-NHCH(CO2Et)(CH2)4NHCOC11H23, is a good organogelator that gels most organic solvents such as alcs., cyclic ethers, aromatic solvents and acetonitrile. Various oxalyl amide derivs. with different alkyl ester groups such as hexyl, decyl, dodecyl, 2-ethyl-1-hexyl and 3,5,5-trimethylhexyl also showed good organogelation abilities. Furthermore, it was found that the cyclohexane gels formed by some oxalyl amide derivs. have a high thermal stability.

SUPPL. TERM: lysine bis amide alkylene prepn organogelator thermal stability
INDEX TERM: Solvent effect
(effects of organic solvents on organogelation properties of bis-lysine amides linked by alkylene chains)
INDEX TERM: Molecular structure-property relationship
(gelation; preparation, organogelation property and thermal stability of bis-lysine amides linked by alkylene chains)
INDEX TERM: Gelation
Gelation agents
Thermal stability
(preparation, organogelation property and thermal stability of bis-lysine amides linked by alkylene chains)
INDEX TERM: **615584-80-0P 615584-81-1P**
615584-82-2P 615584-83-3P
615584-84-4P 615584-85-5P
615584-86-6P 658051-84-4P
658051-85-5P 658051-86-6P
658051-87-7P 658051-88-8P
658051-89-9P 658051-90-2P
658051-91-3P 658051-92-4P
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658051-95-7P 658051-96-8P
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658051-99-1P 658052-00-7P

658052-01-8P
ROLE: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation, organogelation property and thermal stability of bis-lysine amides linked by alkylene chains)

INDEX TERM: 79-37-8, Oxalyl chloride 111-19-3, Sebacoyl chloride 111-27-3, n-Hexanol, reactions 111-50-2, Adipoyl chloride 112-16-3, Lauroyl chloride 112-30-1, 1-Decanol 112-53-8, Dodecyl alcohol 123-98-8, Azelaoyl chloride 142-79-0, Pimeloyl chloride 543-20-4, Succinyl chloride 1663-67-8, Malonyl chloride 2873-74-7, Glutaryl chloride 3452-97-9, 3,5,5-Trimethylhexanol 4834-98-4, Dodecanedioyl dichloride 10027-07-3, Suberoyl chloride 52315-75-0
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(preparation, organogelation property and thermal stability of bis-lysine amides linked by alkylene chains)

INDEX TERM: 340811-55-4P 521974-57-2P 614723-86-3P 615584-87-7P 615584-88-8P 615584-89-9P
ROLE: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation, organogelation property and thermal stability of bis-lysine amides linked by alkylene chains)

REFERENCE COUNT: 40 THERE ARE 40 CITED REFERENCES AVAILABLE FOR THIS RECORD.

REFERENCE(S):

(1) Ajayaghosh, A; J Am Chem Soc 2001, V123, P5148 HCAPLUS
(2) Becerril, J; Chem Commun 2002, P738 HCAPLUS
(3) de Loos, M; Angew Chem, Int Ed 2001, V40, P613 HCAPLUS
(4) Friggeri, A; J Am Chem Soc 2002, V124, P10754 HCAPLUS
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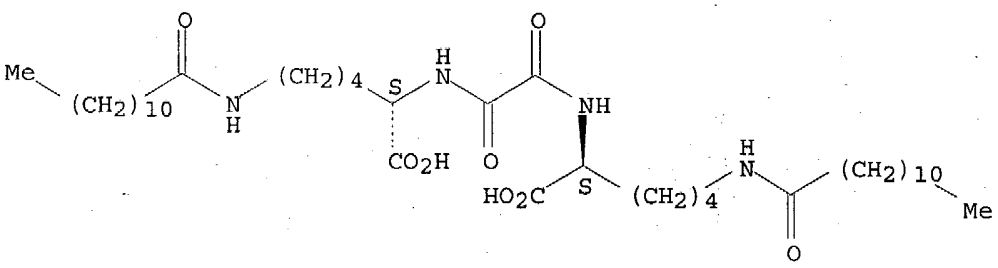
IT **615584-80-0P 615584-81-1P 615584-82-2P**
615584-83-3P 615584-84-4P 615584-85-5P
615584-86-6P 658051-84-4P 658051-85-5P
658051-86-6P 658051-87-7P 658051-88-8P
658051-89-9P 658051-90-2P 658051-91-3P
658051-92-4P 658051-93-5P 658051-94-6P
658051-95-7P 658051-96-8P 658051-97-9P
658051-98-0P 658051-99-1P 658052-00-7P
658052-01-8P
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation, organogelation property and thermal stability of bis-lysine amides linked by alkylene chains)

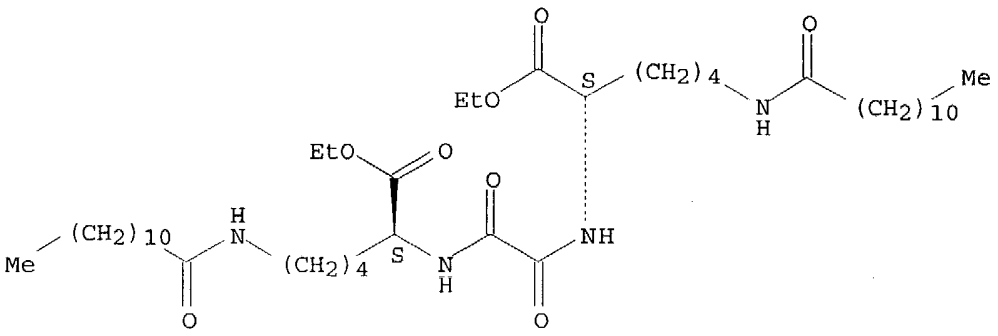
RN 615584-80-0 HCAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



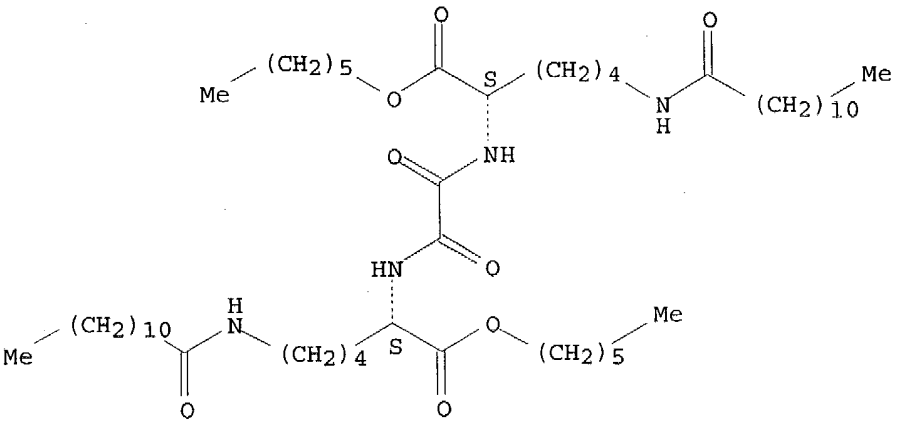
RN 615584-81-1 HCAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



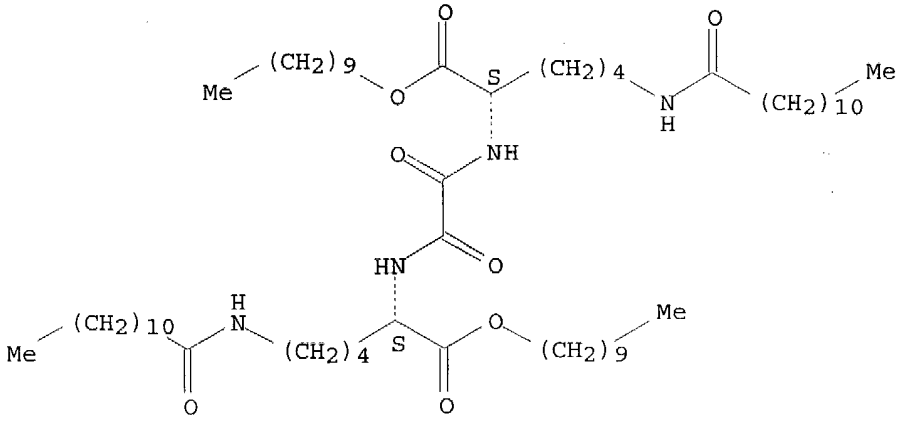
RN 615584-82-2 HCAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, dihexyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



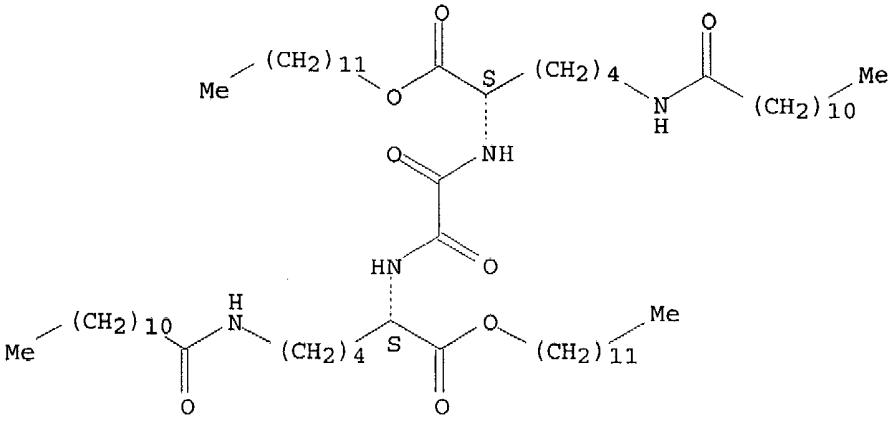
RN 615584-83-3 HCAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, didecyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



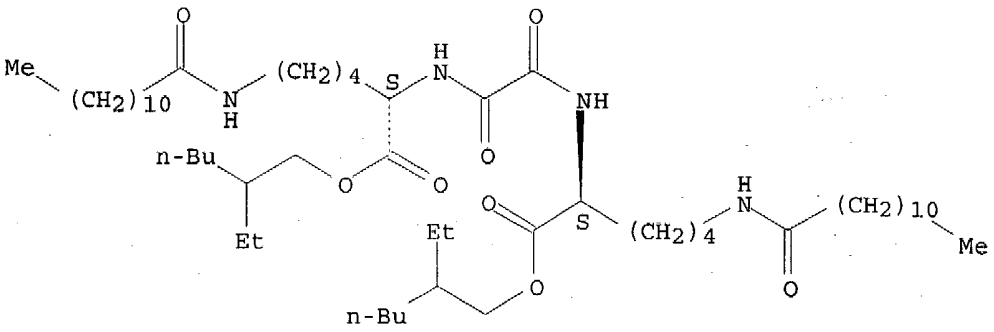
RN 615584-84-4 HCAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, didodecyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



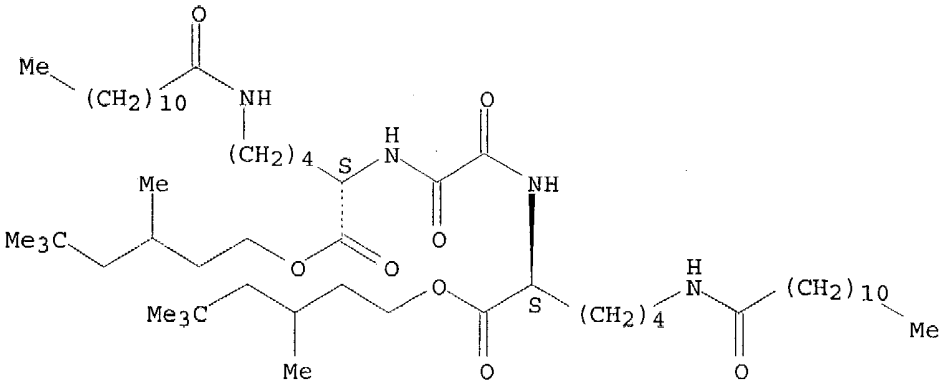
RN 615584-85-5 HCAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(2-ethylhexyl) ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 615584-86-6 HCAPLUS
CN L-Lysine, N2,N2'-(1,2-dioxo-1,2-ethanediyl)bis[N6-(1-oxododecyl)-, bis(3,5,5-trimethylhexyl) ester (9CI) (CA INDEX NAME)

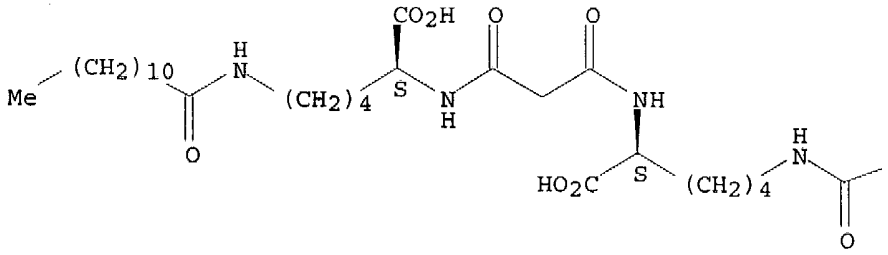
Absolute stereochemistry.



RN 658051-84-4 HCAPLUS
CN L-Lysine, N2,N2'-(1,3-dioxo-1,3-propanediyl)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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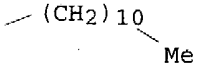
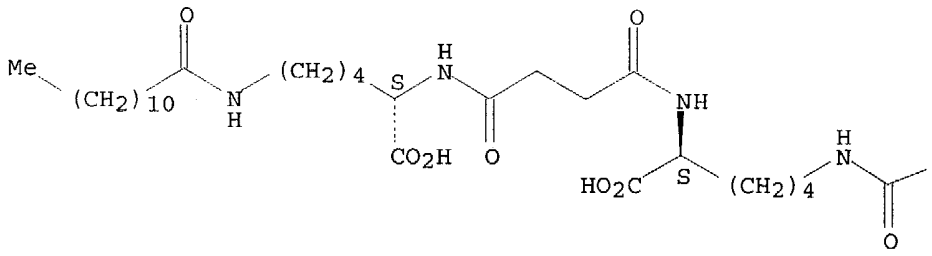


RN 658051-85-5 HCAPLUS
CN L-Lysine, N2,N2'-(1,4-dioxo-1,4-butanediyl)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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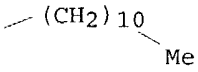
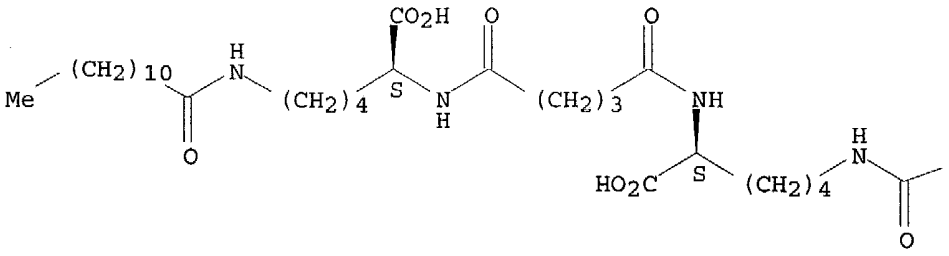


RN 658051-86-6 HCAPLUS
CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanediyl)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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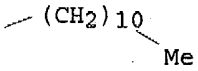
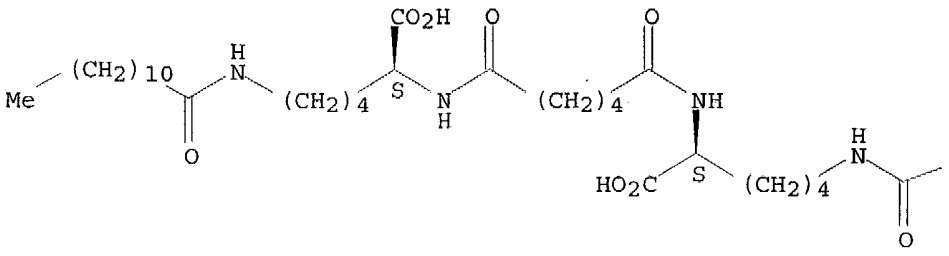


RN 658051-87-7 HCAPLUS
CN L-Lysine, N2,N2'-(1,6-dioxo-1,6-hexanediyl)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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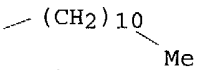
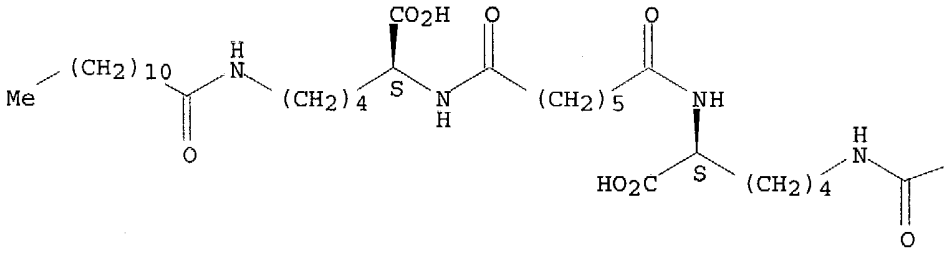


RN 658051-88-8 HCAPLUS
CN L-Lysine, N2,N2'-(1,7-dioxo-1,7-heptanediyl)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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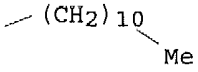
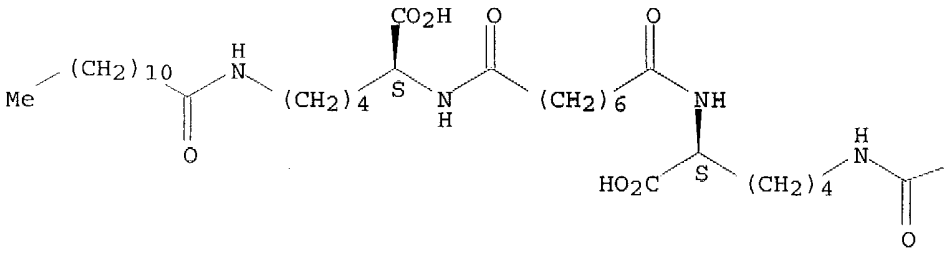


RN 658051-89-9 HCAPLUS
CN L-Lysine, N2,N2'-(1,8-dioxo-1,8-octanediyl)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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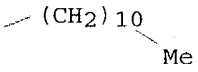
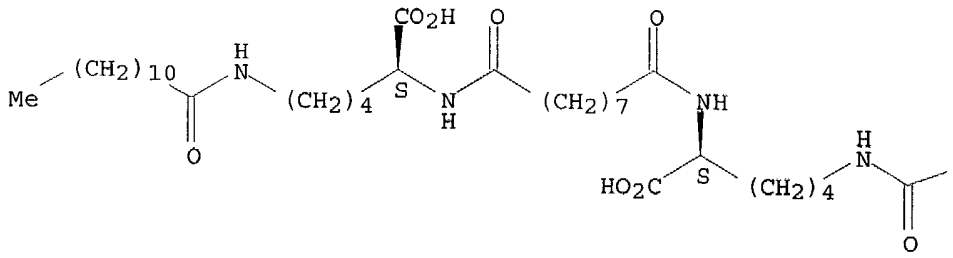


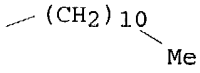
RN 658051-90-2 HCAPLUS
CN L-Lysine, N2,N2'-(1,9-dioxo-1,9-nonanediyl)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



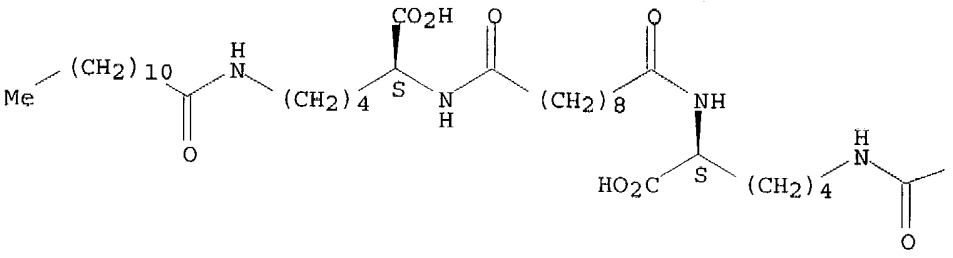
PAGE 1-B



RN 658051-91-3 HCAPLUS
CN L-Lysine, N2,N2'-(1,10-dioxo-1,10-decanediyl)bis[N6-(1-oxododecyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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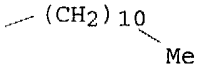
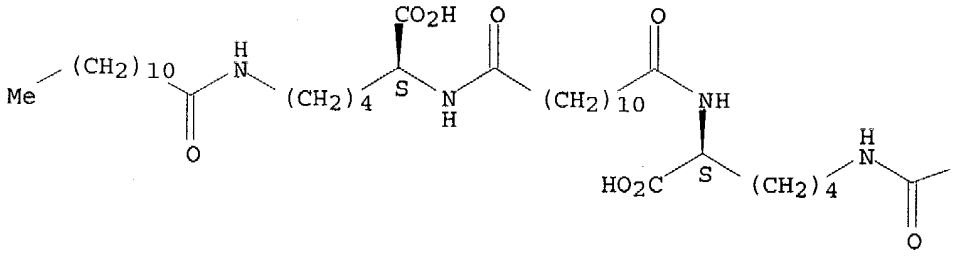


RN 658051-92-4 HCAPLUS
CN L-Lysine, N2,N2'-(1,12-dioxo-1,12-dodecanediyl)bis[N6-(1-oxododecyl)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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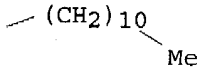
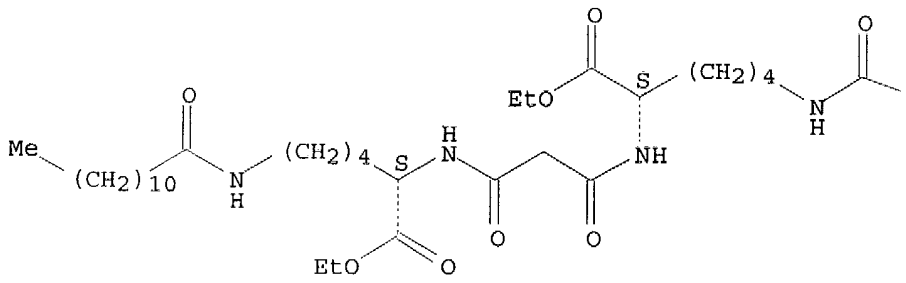


RN 658051-93-5 HCAPLUS
CN L-Lysine, N2,N2'-(1,3-dioxo-1,3-propanediyl)bis[N6-(1-oxododecyl)-,
diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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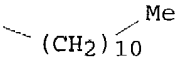
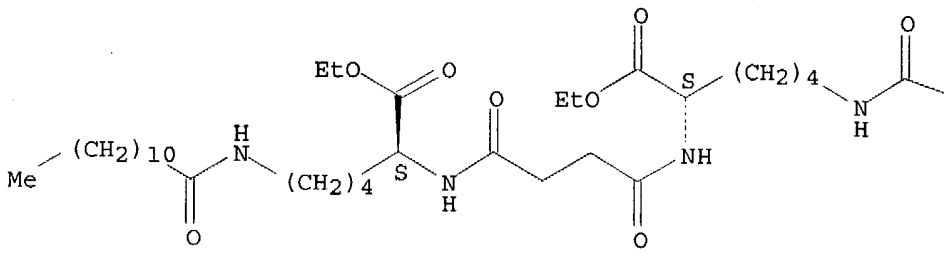


RN 658051-94-6 HCAPLUS

CN L-Lysine, N2,N2'-(1,4-dioxo-1,4-butanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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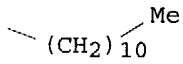
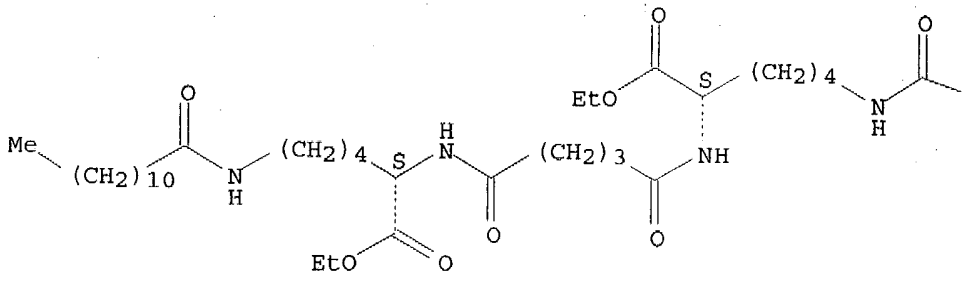


RN 658051-95-7 HCAPLUS
CN L-Lysine, N2,N2'-(1,5-dioxo-1,5-pentanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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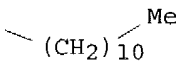
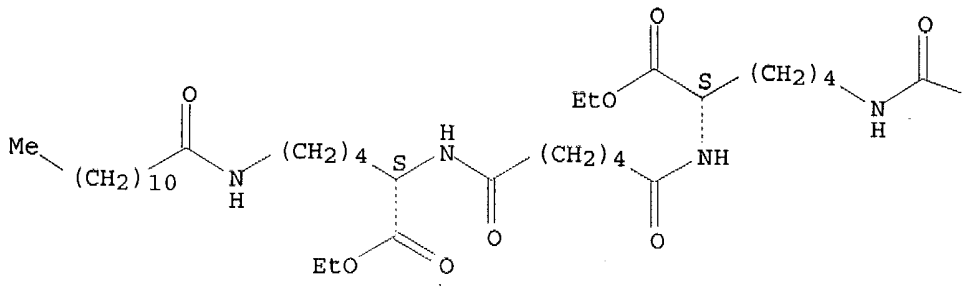


RN 658051-96-8 HCAPLUS
CN L-Lysine, N2,N2'-(1,6-dioxo-1,6-hexanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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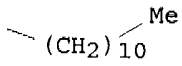
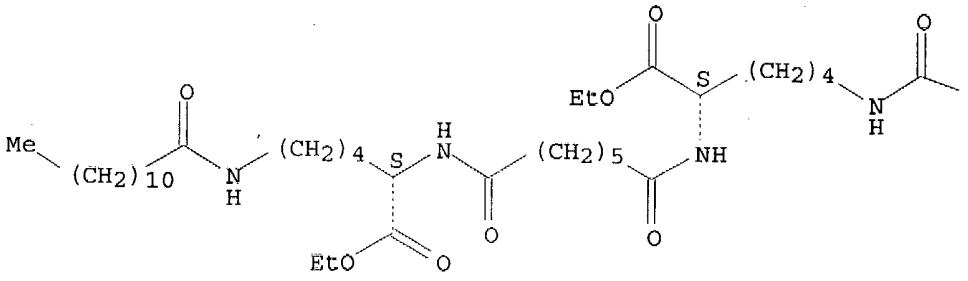


RN 658051-97-9 HCAPLUS
CN L-Lysine, N2,N2'-(1,7-dioxo-1,7-heptanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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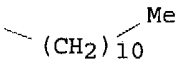
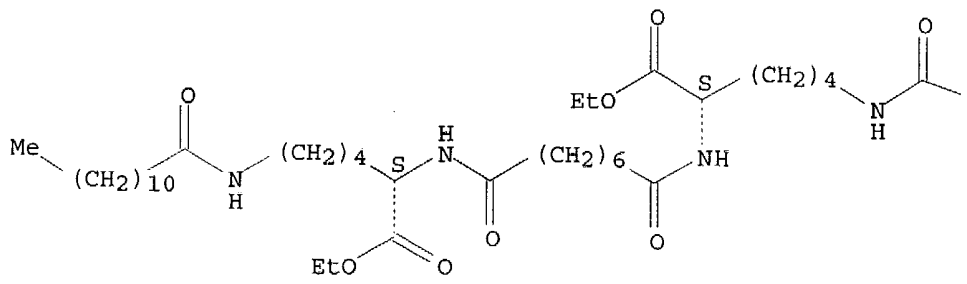


RN 658051-98-0 HCAPLUS
CN L-Lysine, N2,N2'-(1,8-dioxo-1,8-octanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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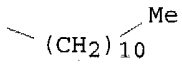
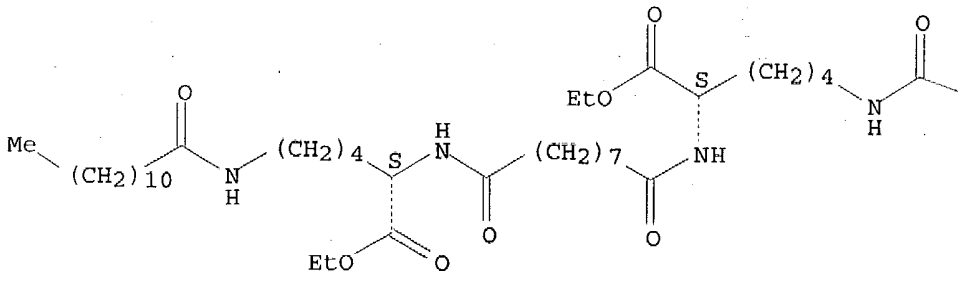


RN 658051-99-1 HCAPLUS
CN L-Lysine, N2,N2'-(1,9-dioxo-1,9-nonanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



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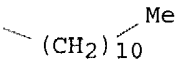
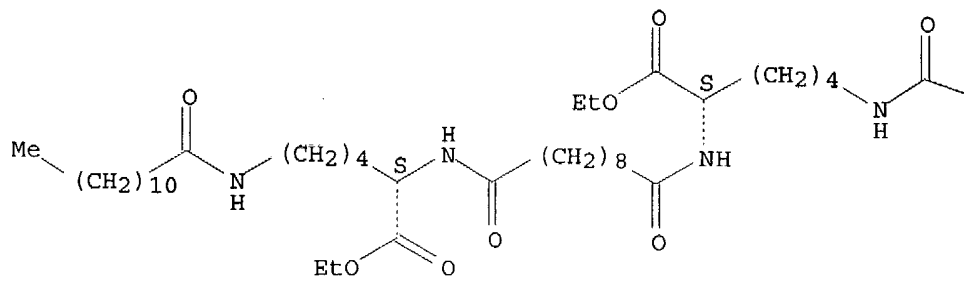


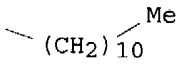
RN 658052-00-7 HCAPLUS
CN L-Lysine, N2,N2'-(1,10-dioxo-1,10-decanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



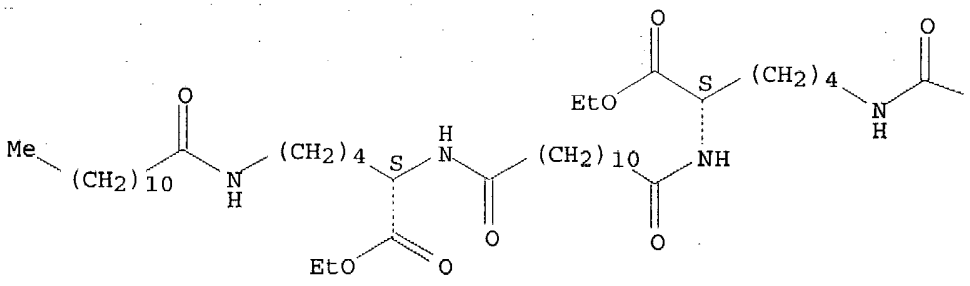
PAGE 1-B



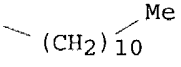
RN 658052-01-8 HCAPLUS
CN L-Lysine, N2,N2'-(1,12-dioxo-1,12-dodecanediyl)bis[N6-(1-oxododecyl)-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A



PAGE 1-B



L24 ANSWER 3 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1997:334995 HCAPLUS
DOCUMENT NUMBER: 127:51064
ENTRY DATE: Entered STN: 26 May 1997
TITLE: Synthesis and characterization of random and regular L-lysine-based polyamides
AUTHOR(S): Gachard, Isabelle; Coutin, Bernard; Sekiguchi, Hikaru
CORPORATE SOURCE: Laboratoire Chimie Macromoleculaire, Universitet

Pierre et Marie Curie, Paris, F-75252, Fr.
SOURCE: Macromolecular Chemistry and Physics (1997), 198(5), 1375-1389
CODEN: MCHPES; ISSN: 1022-1352
PUBLISHER: Huethig & Wepf
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 35-5 (Chemistry of Synthetic High Polymers)

ABSTRACT:
The synthesis of polyamides based on the natural diamine L-lysine and diacids, adipic or glutaric acid, is described. They were obtained by polycondensation of active diesters, pentachlorophenyl, and pentafluorophenyl esters. L-Lysine being non-sym., aregular (random), and syndioregular (head-to-head, tail-to-tail) poly(adipoyl-L-lysine)s and poly(glutaroyl-L-lysine)s were obtained with mol. wts. > 15,000 while isoregular (head-to-tail) poly(adipoyl-L-lysine)s and poly(glutaroyl-L-lysine)s were prepared with lower mol. wts.

SUPPL. TERM: amino diacid lysine polymer syndioregular prepn; polyamide lysine adipic glutaric syndioregular prepn

INDEX TERM: Polyamides, preparation
ROLE: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and characterization of random and regular L-lysine-based polyamides with adipic or glutaric acid)

INDEX TERM: 191230-54-3P 191230-57-6P
ROLE: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(monomer; preparation and characterization of random and regular L-lysine-based polyamides with adipic or glutaric acid)

INDEX TERM: 6366-70-7P 191230-53-2P 191230-55-4P 191230-56-5P
ROLE: PRP (Properties); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation and characterization of random and regular L-lysine-based polyamides with adipic or glutaric acid)

INDEX TERM: 191230-58-7P 191230-59-8P 191230-60-1P 191230-61-2P
191230-62-3P 191230-63-4P **191230-64-5P**
191230-65-6P 191230-66-7P 191230-68-9P 191230-69-0P
ROLE: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and characterization of random and regular L-lysine-based polyamides with adipic or glutaric acid)

INDEX TERM: 87-86-5, Pentachlorophenol 100-51-6, Benzyl alcohol, reactions 405-39-0, N,N'-Bis(benzyloxycarbonyl)-L-lysine 2035-75-8, Adipic anhydride 10416-59-8, N,O-Bis(trimethylsilyl)acetamide 16259-78-2 83701-40-0, Hexanedioic acid, bis(pentafluorophenyl) ester
ROLE: RCT (Reactant); RACT (Reactant or reagent)
(preparation and characterization of random and regular L-lysine-based polyamides with adipic or glutaric acid)

INDEX TERM: 191230-52-1P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(preparation and characterization of random and regular L-lysine-based polyamides with adipic or glutaric acid)

IT **191230-62-3P 191230-64-5P**
RL: PRP (Properties); SPN (Synthetic preparation); PREP (Preparation)
(preparation and characterization of random and regular L-lysine-based polyamides with adipic or glutaric acid)

RN 191230-62-3 HCAPLUS

CN Poly[imino[1-[(phenylmethoxy)carbonyl]-1,5-pentanediyl]imino(1,6-dioxo-1,6-hexanediyl)imino[5-[(phenylmethoxy)carbonyl]-1,5-pentanediyl]imino(1,6-dioxo-1,6-hexanediyl)], [S-(R*,R*)]- (9CI) (CA INDEX NAME)

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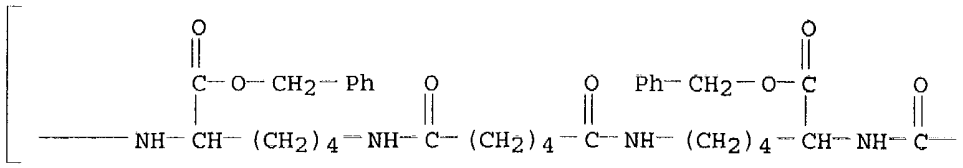
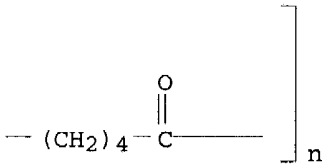


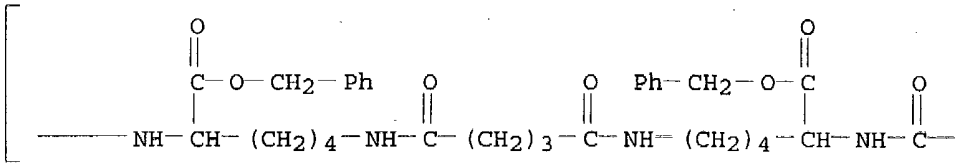
PAGE 1-B



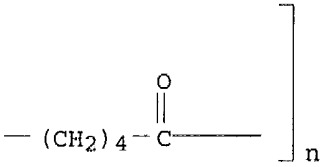
RN 191230-64-5 HCAPLUS

CN Poly[imino[(1S)-1-[(phenylmethoxy)carbonyl]-1,5-pentanediyl]imino(1,5-dioxo-1,5-pentanediyl)imino[(5S)-5-[(phenylmethoxy)carbonyl]-1,5-pentanediyl]imino(1,6-dioxo-1,6-hexanediyl)] (9CI) (CA INDEX NAME)

PAGE 1-A



PAGE 1-B



L24 ANSWER 4 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1968:13536 HCAPLUS

DOCUMENT NUMBER: 68:13536

ENTRY DATE: Entered STN: 12 May 1984

TITLE: Optically active polyamides with regular structural sequences prepared from α-amino acids

AUTHOR(S): Saotome, Kazuo; Schulz, Rolf Christian
CORPORATE SOURCE: Univ., Mainz, Mainz, Fed. Rep. Ger.
SOURCE: Makromolekulare Chemie (1967), 109, 239-48
CODEN: MACEAK; ISSN: 0025-116X
DOCUMENT TYPE: Journal
LANGUAGE: English
CLASSIFICATION: 35 (Synthetic High Polymers)
ABSTRACT:
Optically active polyamides with regular structural sequences were prepared from L-lysine and adipic acid. An optically active sym. diamine, N,N'-bis(L-5-amino-5-carboxyamyl) adipamide, m. 305° (decomposition), was obtained by treating L-lysine with adipoyl chloride (I) in the presence of Cu2+. The interfacial polycondensation of this diamine with I gave a regular polymer, while the polycondensation of L-lysine with I gave an irregular polymer of the same anal. composition The m.ps., optical rotations, and the O.R.D. curves of these polymers were investigated.

SUPPL. TERM: POLYAMIDES OPTICALLY ACTIVE; OPTICALLY ACTIVE POLYAMIDES; ADIPIC ACID LYSINE POLYAMIDES; AMINO ACID POLYAMIDES; LYSINE-ADIPIC ACID POLYAMIDES
INDEX TERM: Chains, chemical
(configuration or conformation of, of adipic acid-lysine polyamides, O.R.D. in relation to)
INDEX TERM: Polyamides, preparation
ROLE: PREP (Preparation)
(from adipic acid and lysine, O.R.D. in relation to chain configuration of)
INDEX TERM: Optical rotatory dispersion
(of adipic acid-lysine polyamides, chain configuration in relation to)
INDEX TERM: 18784-13-9
ROLE: USES (Uses)
(model compound for adipic acid-lysine polyamides)
INDEX TERM: 18784-11-7P 18784-12-8P
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)
INDEX TERM: 26760-94-1P 29612-49-5P 29615-94-9P 29615-95-0P **32029-32-6P 32032-03-4P**
ROLE: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, and O.R.D. in relation to chain configuration thereof)

IT **32029-32-6P 32032-03-4P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of, and O.R.D. in relation to chain configuration thereof)
RN 32029-32-6 HCAPLUS
CN Poly[imino[(1S)-1-carboxy-1,5-pentanediyl]imino(1,6-dioxo-1,6-hexanediyl)imino[(5S)-5-carboxy-1,5-pentanediyl]imino(1,6-dioxo-1,6-hexanediyl)] (9CI) (CA INDEX NAME)

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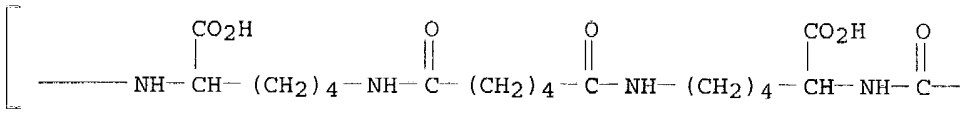

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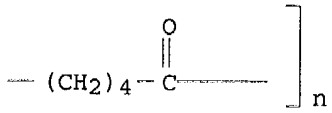

RN 32032-03-4 HCAPLUS
CN Poly[imino[(1S)-1-carboxy-1,5-pentanediyl]imino(1,6-dioxo-1,6-hexanediyl)imino[(5S)-5-carboxy-1,5-pentanediyl]imino(1,6-dioxo-1,6-hexanediyl)], rel- (9CI) (CA INDEX NAME)

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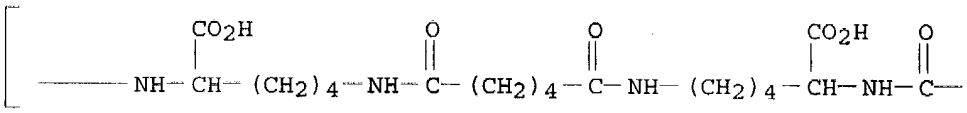

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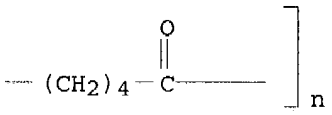


L24 ANSWER 5 OF 6 HCAPLUS COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: 1964:3568 HCAPLUS
DOCUMENT NUMBER: 60:3568
ORIGINAL REFERENCE NO.: 60:657g-h,658a-h,659a-d
ENTRY DATE: Entered STN: 22 Apr 2001
TITLE: Peptides. XXXV. Synthesis of α, ω-oligamides from L-glutamic acid and L-lysine
AUTHOR(S): Zahn, Helmut; Paetzold, Walter
CORPORATE SOURCE: Tech. Hochschule, Aachen, Germany
SOURCE: Ber. (1963), 96(10), 2566-76
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
CLASSIFICATION: 44 (Amino Acids, Peptides, and Proteins)
OTHER SOURCE(S): CASREACT 60:3568
GRAPHIC IMAGE: For diagram(s), see printed CA Issue.
ABSTRACT:
cf. CA 59, 751g. Several oligamides of the nylon-5,5 type with alternatingly a free CO2H and NH2 monomer unit were prepared by the method of the peptide chemistry from glutamic acid and lysine derivs. Derivs. of these 2 amino acids were subjected to polycondensations. The decomposition of the various condensation products by boiling with H2O and their behavior towards HNO2 were investigated. PhCH2O2CCH(NHCO2CH2Ph)CH2CH2CO2H (9.5 g.) in 80 cc. dry tetrahydrofuran treated 0.5 hr. at -10° with 3.5 cc. Et3N and 2.4 cc. ClCO2Et and then dropwise with 9.0 g. lysine-Cu complex-HCl and 7 cc. Et3N in 50 cc. H2O and 30 cc. tetrahydrofuran during 1 hr., stirred 2 hrs. with warming to 0°, poured with stirring into 0.75 l. iced H2O, and filtered yielded 8.5 g. PhCH2O2CCH(NHCO2CH2Ph)CH2CH2CO-Lys-OH (I), m. 200° (decomposition) (EtOH). I

(4.8 g.) in 40 cc. H2O and 10 cc. AcOH treated with stirring with 10% aqueous KCN until decolorized and refrigerated several hrs. yielded 4.4 g. N-carbobenzyloxy-α-benzyl-γ-Glu-Lys-OH.0.5H2O (II), m. 204° (H2O), Rf 0.85 (75:15:10 EtMeCHOH-90% HCO2H-H2O; solvent A); Rf 0.35 (85:15 EtMeCHOH-10% NH4OH; solvent B). II (2.0 g.) in 50 cc. 90% tert-BuOH hydrogenated 2 hrs. over 50 mg. Pd black and the mixture filtered and evaporated yielded 1.1 g. Nε-γ-Glu-Lys-OH, powder, decomposed 250°, Rf 0.04 (A), 0.0 (B), 0.27 (free peptide) and 0.57 (HCl salt) (80% aqueous PhOH). Carbobenzyloxyglutamic acid (III) (10.3 g.) in 70 cc. MeCN treated with 17 g. dicyclohexylcarbodiimide (IV) in 30 cc. MeCN and then dropwise with 21.5 g. Nε-carbobenzyloxylysine Et ester (V) in 40 cc. MeCN, kept at 0° overnight, and filtered, the residue boiled with EtOAc, and the combined filtrates treated with a little AcOH, filtered, and evaporated gave 24.8 g. VI (X and X' =PhCH2O2C) (VII), m. 113° (EtOAc), Rf 1.0 (A), 0.85 (B). VII (3 g.) in 150 cc. dry C6H6 treated 0.5 hr. at room temperature with dry HBr and refrigerated several hrs. gave VI.3HBr (X and X' = H) (VIII.3HBr) hygroscopic powder, Rf 0.09 (A), 0.28 (B). VIII.3HBr (about 1 g.) in 10 cc. acetate buffer (pH 4.6) treated with saturated aqueous Reinecke salt, heated to solution, and cooled deposited the trireineckate of VIII, pink powder, m. 150° (decomposition) (H2O). Trifluoroacetylglutamic acid (IX) (4.8 g.) in 75 cc. MeCN, 9 g. IV in 25 cc. MeCN, and 19.3 g. V in 50 cc. MeCN refrigerated 5 days and filtered, the residue boiled with 300 cc. EtOAc and filtered off, and the viscous residue from the extract dissolved in 150 cc. warm EtOAc and kept 24 hrs. deposited 12.3 g. VI (X = CF3CO, X' = H) (X), m. 135° with sintering, Rf 0.95 (A). IX (26 g.) in 300 cc. dry EtOAc treated with stirring with 27.8 g. p-O2NC6H4OH and 41.2 g. IV, stirred 6 hrs., kept over-night, and worked up yielded 32 g. bis(p-nitrophenyl) ester (XI) of IX, needles, m. 144° (C6H6). XI (9.7 g.) in 50 cc. dry EtOAc treated dropwise at 0° with stirring with 12.3 g. V in 50 cc. EtOAc during 1 hr., refrigerated 12 hrs., concentrated to half-volume, diluted to incipient turbidity with Et2O, and refrigerated several days gave 9.5 g. X, m. 128-35°, Rf 0.95(A). X (4.1 g.) in 30 cc. dioxane treated 3 hrs. with 30 cc. N NaOH, acidified with dilute HCl to pH 2, concentrated, and refrigerated, and the precipitated oil washed with H2O and repptd. from aqueous EtOH with Et2O yielded 3.4 g. XII (Z = PhCH2O2C) (XIIa), m. 132-40° with sintering (EtOH-H2O-Et2O). XIIa (10 g.) in 200 cc. C6H6 cleaved in the usual manner with HBr gave 8.25 g. VI 2.HBr (X = CF3CO, X' = H) (XIII.2HBr), Rf 0.28 (A), 0.65 (B). XIII.2HBr (1 g.) in 20 cc. acetate buffer (pH 4.6) with aqueous Reinecke salt gave the di-reineckate of XIII, red-violet leaflets, m. 140° (decomposition)(H2O). XIII.2HBr (8.25 g.) in 150 cc. MeCN, 3.15 cc. Et3N, 9.2 g. PhCH2 ester (XIV) of IX in 100 cc. MeCN, and 6 g. IV in 50 cc. MeCN yielded in the usual manner 6.55 g. XV (X = CF3-CO, R = PhCH2, R' = Et) (XVI), m. 169° with sintering (50% aqueous EtOH), Rf 0.95 (A). XVI (1.13 g.) in 30 cc. MeOH and 30 cc. 0.34N Ba(OH)2 kept 3 hrs. at room temperature, treated with an equivalent amount N H2SO4, filtered, concentrated in vacuo under N to 2 cc., diluted with 20 cc. Me2CO, and refrigerated several hrs. gave 520 g. XV (X, R, R' = H), amorphous powder, m. 140° with sintering at 80° and gas evolution at 90° (repptd. from H2O with Me2CO), Rf 0 (A), 0 (B), 0.4 (80% PhOH). Et lysinate 2HCl (XVII) (2.5 g.) in 50 cc. MeCN, 2.75 cc. Et3N, 6.6 g. XIV in 50 cc. MeCN, and 5.15 g. IV in 30 cc. MeCN yielded in the usual manner 6.9 g. (crude) XVIII (X = CF3CO, R = PhCH2, R' = Et) (XIX), m. 132° with sintering (50% EtOH), Rf 0.9 (A). XIX (4 g.), 75 cc. MeOH, and 75 cc. 0.4N Ba(OH)2 kept 3 hrs. at room temperature, treated with N H2SO4, and worked up in the usual manner yielded 1.4 g. XVIII (X, R, R' = H), microcryst. powder, m. 227° (decomposition) (repptd. from H2O with Me2CO), Rf 0.05 (A), 0.00 (B), 0.45 (80% PhOH). XIX (12 g.) stirred 2 hrs. with about 200 cc. dry, Br-free HBr and evaporated yielded 9 g. XVIII (X = CF3CO, R = H, R' = Et)(XX), Rf

0.8 (A). XX(9 g.) in 100 cc. MeCN adjusted with a few drops Et3N to pH 3-4, treated with 7.5 g. IV in 20 cc. MeCN and 12.3 g. V in 50 cc. MeCN, and worked up, and the crude product chromatgraphed on Al2O3 yielded 7.1 g. XXI (R = Et, X = CF3CO, Y = PhCH2O2C) (XXII), m. 125-9° with sintering (repptd. from C6H6), Rf 0.95 (A). XXII (1.2 g.) in 30 cc. dioxane treated 3 hrs. at room temperature with 30 cc. N NaOH, acidified with dilute HCl to pH 3-4, and concentrated to
about 5 cc., and the oily product washed with H2O and repptd. from EtOH with Et2O gave an inhomogeneous powder, m. 145-55°; the crude product hydrogenated 6 hrs. in 30 cc. 90% tert-BuOH over Pd black, filtered, and evaporated, and the residue dissolved in 2 cc. H2O, repptd. with Me2CO as an oil, redissolved in H2O, and evaporated over KOH gave 0.29 g. XXI (R, X, Y = H), pale yellow hygroscopic powder, m. 85° with sintering and decomposition at 115°, Rf 0.0 (A), 0.0 (B), 0.6 (80% PhOH). III (14 g.) in 250 cc. EtOAc stirred 5 hrs. with 21 g. p-O2NC6H4OH and 24.5 g. IV, refrigerated overnight, filtered, and evaporated yielded 18.5 g. bis(p-nitrophenyl) ester (XXIII) of III, m. 116° (EtOH). XVII (5.0 g.) in 30 cc. HCONMe2 and 5.5 cc. Et3N treated dropwise with stirring during 1 hr. with 10.5 g. XXIII in 20 cc. HCONMe2, stirred 2 hrs. at room temperature, refrigerated 2 days, concentrated, dissolved
in 50 cc. hot Me2CO, cooled, and filtered, the residue heated 2 hrs. at 50° with 100 cc. 50% aqueous Me2CO diluted with H2O to 500 cc., this operation repeated, the mixture filtered, and the crude product ground with 100 cc. MeCN, diluted with 500 cc. H2O, and filtered off gave 5.8 g. polycondensation product (C21H29N3O6)n, m. 145-60° with sintering; a 5-g. sample extracted 10 hrs. with H2O in a Soxhlet apparatus, and the extract evaporated gave 1.4 g. product, m. 120-40° with sintering, mol. weight 1100; the undissolved residue was then extracted successively with 500 cc. Me2CO, EtOH, CHCl3, and HCONMe2 each during 10 hrs. each time; each solution was then concentrated and diluted with 10 volume H2O and the
precipitate repptd. from CHCl3 with Et2O to yield the following condensation products
(% content in the crude polycondensation product, average mol. weight, m.p., and solvent used are given): 30, 2900, 130-5°, Me2CO; 22, 3700, 135-8°, EtOH; 5, 4300, 135-40°, CHCl3; 5, 5500, 135-45°, HCONMe2. The peptides with free CO2H and NH2 groups were subjected in 1% aqueous solution to 5, 10, 20, 30, 45, and 60 hrs. reflux and the cleavage product determined
by paper chromatography; the identity of the products is being investigated. The estimation of the amino N by the van Slyke method on all free and some of the protected peptides prepared in this study showed that the γ-carbonamido N is determined only if the α-CO2H group of the γ-glutamyl group is free.

INDEX TERM: Amides
(poly-, from glutamic acid and lysine)
INDEX TERM: Peptides
(preparation of)
INDEX TERM: Copper, bis[(N6-(dihydrogen N-carboxy-L-γ-glutamyl)-L-lysinato]-, tetrabenzyl ester
Glutamic acid, N-(trifluoroacetyl)-, bis(p-nitrophenyl) ester
Glutamic acid, N-carboxy-, N-benzyl bis(p-nitrophenyl) ester, L-
Lysine, polyamides with L-glutamic acid
Lysine, N2, N2'-[N-(trifluoroacetyl)-L-glutamoyl]di-, diethyl ester, dihydrobromide, L-
Lysine, N2, N2'-[N-(trifluoroacetyl)-L-glutamoyl]di-, diethyl ester, direineckate, L-
Lysine, N2,N2'-[(1-carboxypentamethylene)bis[imino(2-

aminoglutaryl)]]di-, dihydrochloride, L-
Lysine, N2,N2'-[(1-carboxypentamethylene)bis[imino[2-(2,2,2-trifluoroacetamido)glutaryl]]]bis[N6-carboxy-, dibenzyl tri-Et ester, L-
Lysine, N2,N2'-L-glutamoylbis[N6-carboxy-, dibenzyl ester, hydrochloride, L-
Lysine, N2,N2'-L-glutamoylbis[N6-L-γ-glutamyl-, L-
Lysine, N2,N2'-L-glutamoyldi-, diethyl ester, trireineckate, L-
Lysine, N2,N6-di-L-γ-glutamyl-, L-
Lysine, N6-(N-carboxy-L-γ-glutamyl)-, dibenzyl ester, Cu complex, L-
Lysine, N6-(N-carboxy-L-γ-glutamyl)-, dibenzyl ester, L-
Lysine, N6-L-γ-glutamyl-, hydrochloride, L-

INDEX TERM: **1956-96-3**, Lysine, N2, N2'-[N-(trifluoroacetyl)-L-glutamoyl]bis[N6-[N-(trifluoroacetyl)-L-γ-glutamyl]-, dibenzyl di-Et ester, L- 2599-75-9, Lysine, N2,N6-bis[N-(trifluoroacetyl)-L-γ-glutamyl]-, ethyl ester, L- 4627-59-2, Lysine, N2,N6-bis[N-(trifluoroacetyl)-L-γ-glutamyl]-, dibenzyl Et ester, L- 10241-89-1, Lysine, N2, N2-[N-(trifluoroacetyl)-L-glutamoyl]bis[N6-carboxy-, dibenzyl di-Et ester, L- 17105-15-6, Lysine, N6-L-γ-glutamyl-, L- 96214-20-9, Lysine, N2,N2'-L-glutamoyldi-, diethyl ester, trihydrobromide, L- 106524-30-5, Lysine, N2,N2'-(N-carboxy-L-glutamoyl)bis[N6-carboxy-, tribenzyl di-Et ester, L- 145249-30-5, D-Glutamic acid, polymer with L-lysine
(preparation of)

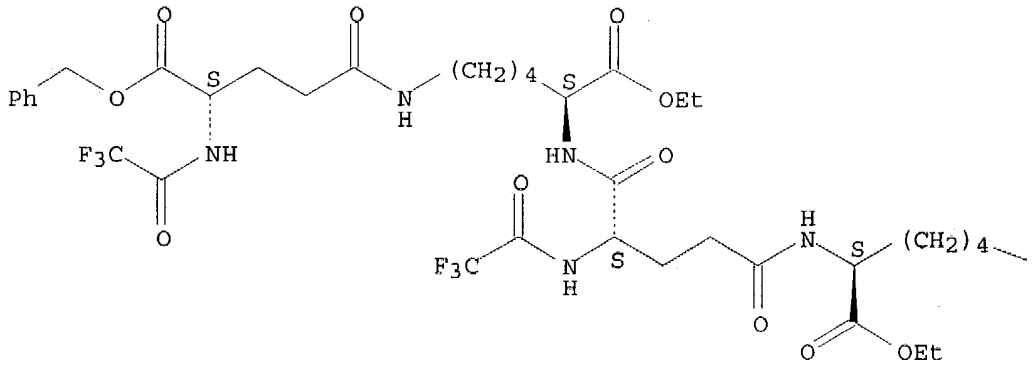
IT **1956-96-3**, Lysine, N2, N2'-[N-(trifluoroacetyl)-L-glutamoyl]bis[N6-[N-(trifluoroacetyl)-L-γ-glutamyl]-, dibenzyl di-Et ester, L-
(preparation of)

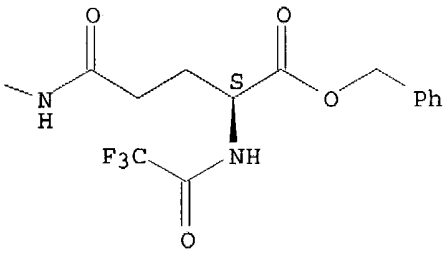
RN 1956-96-3 HCAPLUS

CN Lysine, N2,N2'-[N-(trifluoroacetyl)-L-glutamoyl]bis[N6-[N-(trifluoroacetyl)-L-γ-glutamyl]-, dibenzyl diethyl ester (7CI, 8CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A





=>
=> d iall 6

L24 ANSWER 6 OF 6 CAOLD COPYRIGHT 2004 ACS on STN
ACCESSION NUMBER: CA60:657g CAOLD
TITLE: peptides - (XXXV) synthesis of α,ω-oligamides from L-glutamic acid and L-lysine
AUTHOR NAME: Zahn, Helmut; Paetzold, W.
INDEX TERM: 1683-01-8 1881-71-6 **1956-96-3** 2023-31-6
2599-75-9 4627-59-2 10241-87-9 10241-89-1 17105-15-6
49761-26-4 94429-82-0 94729-49-4 96214-20-9 97255-86-2
97357-55-6 100992-14-1 104377-08-4 105816-73-7
106301-51-3 106524-30-5 106979-36-6 108152-53-0

=> FIL STNGUIDE

FILE 'STNGUIDE' ENTERED AT 15:32:28 ON 15 OCT 2004
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Oct 8, 2004 (20041008/UP).

=> => fil beilst

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FILE RELOADED ON OCTOBER 20, 2002
FILE LAST UPDATED ON JUNE 15, 2004

FILE COVERS 1771 TO 2003.
*** FILE CONTAINS 8,997,153 SUBSTANCES ***

>>>PLEASE NOTE: Reaction Data and substance data are stored in

separate documents and can not be searched together in one query. Reaction data for BEILSTEIN compounds may be displayed immediately with the display codes PRE (preparations) and REA (reactions). A substance answer set retrieved after the search for a chemical name, a compounds with available reaction information by combining with PRE/FA, REA/FA or more generally with RX/FA. The BEILSTEIN Registry Number (BRN) is the link between a BEILSTEIN compound and belonging reactions. For mo detailed reaction searches BRNs can be searched as reaction partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE <<<

```
**********************************************************************
* PLEASE NOTE THAT THERE ARE NO FORMATS FREE OF COST.                *
* SET NOTICE FEATURE: THE COST ESTIMATES CALCULATED FOR SET NOTICE   *
* ARE BASED ON THE HIGHEST PRICE CATEGORY. THEREFORE; THESE          *
* ESTIMATES MAY NOT REFLECT THE ACTUAL COSTS.                        *
* FOR PRICE INFORMATION SEE HELP COST                                *
**********************************************************************
```

NEW

*** PATENT NUMBERS (PN) AND BABS ACCESSION NUMBERS (BABSAN) CAN NOW BE SEARCHED, SELECTED AND TRANSFERRED.**

*** NEW DISPLAY FORMATS ALLREF, ALLP AND BABSAN SHOW ALL REFERENCES, ALL PATENT REFERENCES, OR ALL BABS ACCESSION NUMBERS FOR A COMPOUND AT A GLANCE.**

```
=> d que nos l28
L17             STR
L27           7 SEA FILE=BEILSTEIN SSS FUL L17
L28           7 SEA FILE=BEILSTEIN ABB=ON  PLU=ON  L27 NOT RN/FA


=> d ide l28 1


L28  ANSWER 1 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

     Beilstein Records (BRN):        9609788
     Chemical Name (CN):             6-dodecanoylamino-2-<(5-dodecanoylamino-1-
                                     dodecyloxycarbonyl-pentylaminooxalyl)-
                                     amino>-hexanoic acid dodecyl ester
     Autonom Name (AUN):             6-dodecanoylamino-2-<(5-dodecanoylamino-1-
                                     dodecyloxycarbonyl-pentylaminooxalyl)-
                                     amino>-hexanoic acid dodecyl ester
     Molec. Formula (MF):            C62 H118 N4 O8
     Molecular Weight (MW):          1047.64
     Lawson Number (LN):             3408, 1516, 1237, 380
     File Segment (FS):              Stereo compound
     Compound Type (CTYPE):          acyclic
     Constitution ID (CONSID):       8103123
     Tautomer ID (TAUTID):           9010884
     Entry Date (DED):               2004/04/23
     Update Date (DUPD):             2004/04/23
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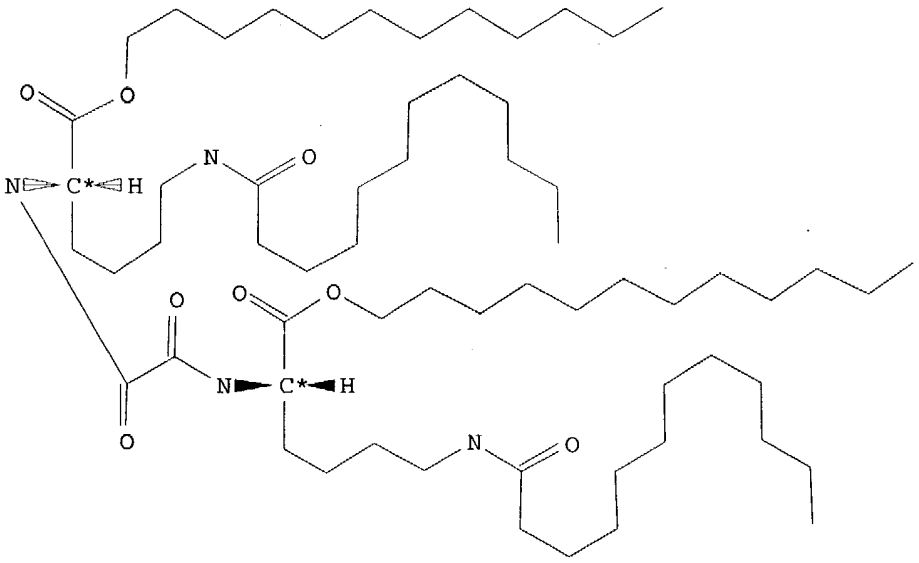

Field Availability:

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CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	4
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d rx l28 1

L28 ANSWER 1 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX

Reaction ID (.ID):	9450810
Reactant BRN (.RBRN):	9600928, 1361988
Reactant (.RCT):	2-amino-6-dodecanoylamino-hexanoic acid dodecyl ester, oxalyl dichloride

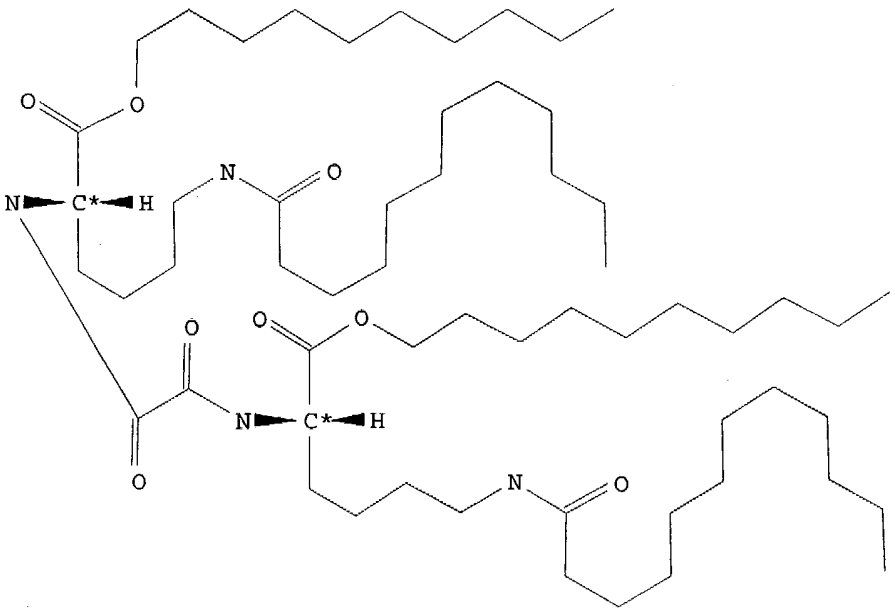
Product BRN (.PBRN): 9609788
Product (.PRO): 6-dodecanoylamino-2-<(5-dodecanoylamino-1-dodecyloxycarbonyl-pentylaminooxalyl)-amino>-hexanoic acid dodecyl ester
No. of React. Details (.NVAR): 1

Reaction Details:
RX
Reaction RID (.RID): 9450810.1
Reaction Classification (.CL): Preparation
Reagent (.RGT): NEt3
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 24 hour(s)
Temperature (.T): 20 Cel
Reference(s):
1. Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko; Kimura, Mutsumi; Shirai, Hirofusa; Kenji, Hanabusa, Tetrahedron Lett., CODEN: TELEAY, 44(36), <2003>, 6841 - 6844; BABS-6416910

=> d ide 128 2

L28 ANSWER 2 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9609441
Chemical Name (CN): 2-<(1-decyloxycarbonyl-5-dodecanoylamino-pentylaminooxalyl)-amino>-6-dodecanoylamino-hexanoic acid decyl ester
Autonom Name (AUN): 2-<(1-decyloxycarbonyl-5-dodecanoylamino-pentylaminooxalyl)-amino>-6-dodecanoylamino-hexanoic acid decyl ester
Molec. Formula (MF): C58 H110 N4 O8
Molecular Weight (MW): 991.53
Lawson Number (LN): 3408, 1516, 1237, 362
File Segment (FS): Stereo compound
Compound Type (CTYPE): acyclic
Constitution ID (CONSID): 8102918
Tautomer ID (TAUTID): 9010610
Entry Date (DED): 2004/04/23
Update Date (DUPD): 2004/04/23



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	4
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d rx l28 2

L28 ANSWER 2 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX

Reaction ID (.ID): 9450797
Reactant BRN (.RBRN): 9455042, 1361988

Reactant (.RCT):	Nε-lauroyl-L-lysine decyl ester, oxalyl dichloride
Product BRN (.PBRN):	9609441
Product (.PRO):	2-<(1-decyloxycarbonyl-5-dodecanoylamino-pentylaminooxalyl)-amino>-6-dodecanoylamino-hexanoic acid decyl ester
No. of React. Details (.NVAR):	1

Reaction Details:
RX

Reaction RID (.RID):	9450797.1
Reaction Classification (.CL):	Preparation
Reagent (.RGT):	NEt3
Solvent (.SOL):	tetrahydrofuran
Time (.TIM):	24 hour(s)
Temperature (.T):	20 Cel

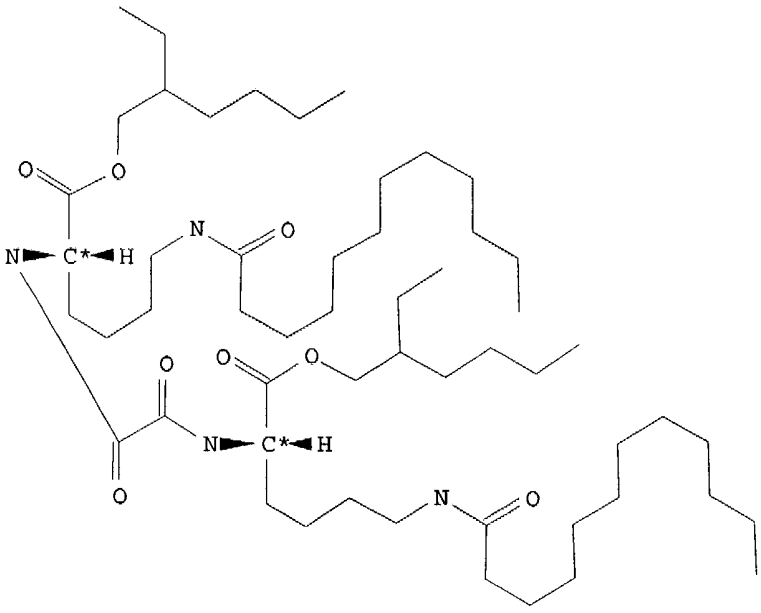
Reference(s):

1. Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko; Kimura, Mutsumi; Shirai, Hirofusa; Kenji, Hanabusa, Tetrahedron Lett., CODEN: TELEAY, 44(36), <2003>, 6841 - 6844; BABS-6416910

=> d ide l28 3

L28 ANSWER 3 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN):	9608844
Chemical Name (CN):	6-dodecanoylamino-2-<<5-dodecanoylamino-1-(2-ethyl-hexyloxycarbonyl)-pentylaminooxalyl>-amino>-hexanoic acid 2-ethyl-hexyl ester
Autonom Name (AUN):	6-dodecanoylamino-2-<<5-dodecanoylamino-1-(2-ethyl-hexyloxycarbonyl)-pentylaminooxalyl>-amino>-hexanoic acid 2-ethyl-hexyl ester
Molec. Formula (MF):	C54 H102 N4 O8
Molecular Weight (MW):	935.42
Lawson Number (LN):	3408, 1516, 1237, 345
File Segment (FS):	Stereo compound
Compound Type (CTYPE):	acyclic
Constitution ID (CONSID):	8102462
Tautomer ID (TAUTID):	9010187
Entry Date (DED):	2004/04/23
Update Date (DUPD):	2004/04/23



Field Availability:

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CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	4
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d rx l28 3

L28 ANSWER 3 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX
Reaction ID (.ID): 9450809
Reactant BRN (.RBRN): 9595999, 1361988

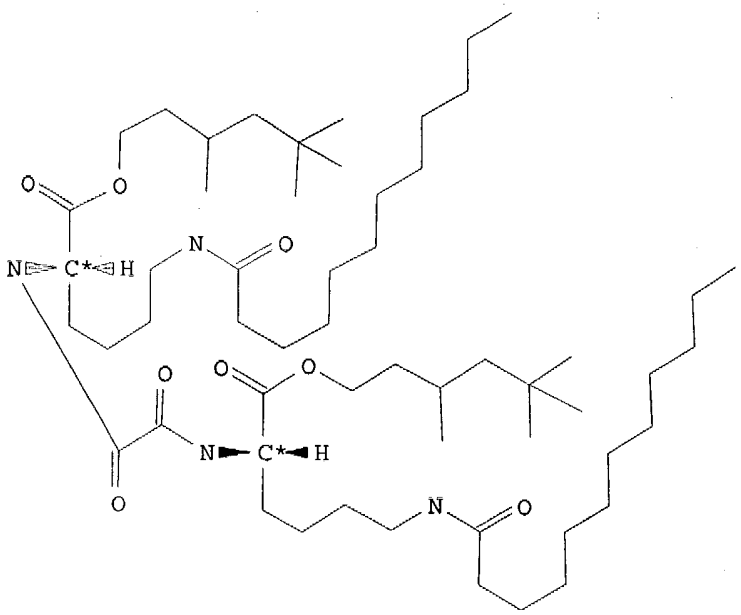
Reactant (.RCT): 2-amino-6-dodecanoylamino-hexanoic acid 2-ethyl-hexyl ester, oxalyl dichloride
Product BRN (.PBRN): 9608844
Product (.PRO): 6-dodecanoylamino-2-<<5-dodecanoylamino-1-(2-ethyl-hexyloxycarbonyl)-pentylaminooxalyl>-amino>-hexanoic acid 2-ethyl-hexyl ester
No. of React. Details (.NVAR): 1

Reaction Details:
RX
Reaction RID (.RID): 9450809.1
Reaction Classification (.CL): Preparation
Reagent (.RGT): NEt3
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 24 hour(s)
Temperature (.T): 20 Cel
Reference(s):
1. Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko; Kimura, Mutsumi; Shirai, Hirofusa; Kenji, Hanabusa, Tetrahedron Lett., CODEN: TELEAY, 44(36), <2003>, 6841 - 6844; BABS-6416910

=> d ide l28 4

L28 ANSWER 4 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9608762
Chemical Name (CN): 6-dodecanoylamino-2-<<5-dodecanoylamino-1-(3,5,5-trimethyl-hexyloxycarbonyl)-pentylaminooxalyl>-amino>-hexanoic acid 3,5,5-trimethyl-hexyl ester
Autonom Name (AUN): 6-dodecanoylamino-2-<<5-dodecanoylamino-1-(3,5,5-trimethyl-hexyloxycarbonyl)-pentylaminooxalyl>-amino>-hexanoic acid 3,5,5-trimethyl-hexyl ester
Molec. Formula (MF): C56 H106 N4 O8
Molecular Weight (MW): 963.48
Lawson Number (LN): 3408, 1516, 1237, 356
File Segment (FS): Stereo compound
Compound Type (CTYPE): acyclic
Constitution ID (CONSID): 8102397
Tautomer ID (TAUTID): 9010090
Entry Date (DED): 2004/04/23
Update Date (DUPD): 2004/04/23



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Code	Name	Occurrence
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CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	4
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d rx l28 4

L28 ANSWER 4 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX
Reaction ID (.ID): 9450808
Reactant BRN (.RBRN): 9595310, 1361988

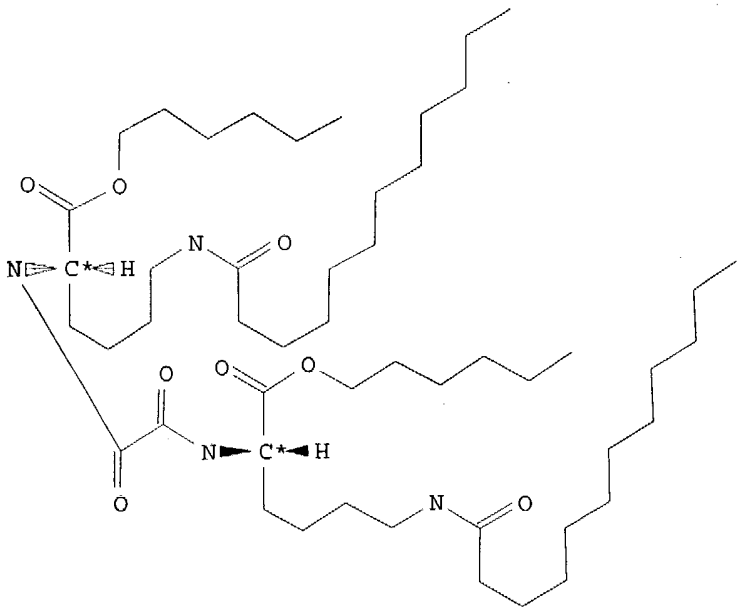
Reactant (.RCT): 2-amino-6-dodecanoylamino-hexanoic acid 3,5,5-trimethyl-hexyl ester, oxalyl dichloride
Product BRN (.PBRN): 9608762
Product (.PRO): 6-dodecanoylamino-2-<<5-dodecanoylamino-1-(3,5,5-trimethyl-hexyloxycarbonyl)-pentylaminooxalyl>-amino>-hexanoic acid 3,5,5-trimethyl-hexyl ester
No. of React. Details (.NVAR): 1

Reaction Details:
RX
Reaction RID (.RID): 9450808.1
Reaction Classification (.CL): Preparation
Reagent (.RGT): NEt3
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 24 hour(s)
Temperature (.T): 20 Cel
Reference(s):
1. Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko; Kimura, Mutsumi; Shirai, Hirofusa; Kenji, Hanabusa, Tetrahedron Lett., CODEN: TELEAY, 44(36), <2003>, 6841 - 6844; BABS-6416910

=> d ide l28 5

L28 ANSWER 5 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9608592
Chemical Name (CN): 6-dodecanoylamino-2-<(5-dodecanoylamino-1-hexyloxycarbonyl-pentylaminooxalyl)-amino>-hexanoic acid hexyl ester
Autonom Name (AUN): 6-dodecanoylamino-2-<(5-dodecanoylamino-1-hexyloxycarbonyl-pentylaminooxalyl)-amino>-hexanoic acid hexyl ester
Molec. Formula (MF): C50 H94 N4 O8
Molecular Weight (MW): 879.31
Lawson Number (LN): 3408, 1516, 1237, 334
File Segment (FS): Stereo compound
Compound Type (CTYPE): acyclic
Constitution ID (CONSID): 8102278
Tautomer ID (TAUTID): 9009997
Entry Date (DED): 2004/04/23
Update Date (DUPD): 2004/04/23



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
LSF	Linearized Structure Formula	1
MF	Molecular Formula	1
FW	Formular Weight	1
FBRN	Fragment BRN	2
LN	Lawson Number	4
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d rx l28 5

L28 ANSWER 5 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX

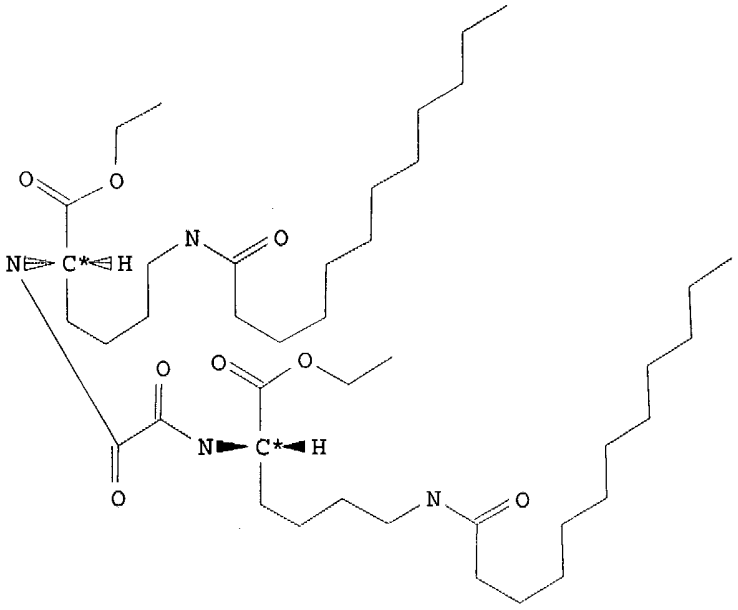
Reaction ID (.ID): 9450806
Reactant BRN (.RBRN): 9593967, 1361988
Reactant (.RCT): 2-amino-6-dodecanoylamino-hexanoic acid hexyl ester, oxalyl dichloride
Product BRN (.PBRN): 9608592
Product (.PRO): 6-dodecanoylamino-2-<(5-dodecanoylamino-1-hexyloxycarbonyl-pentylaminooxalyl)-amino>-hexanoic acid hexyl ester
No. of React. Details (.NVAR): 1

Reaction Details:
RX
Reaction RID (.RID): 9450806.1
Reaction Classification (.CL): Preparation
Reagent (.RGT): NEt3
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 24 hour(s)
Temperature (.T): 20 Cel
Reference(s):
1. Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko; Kimura, Mutsumi; Shirai, Hirofusa; Kenji, Hanabusa, Tetrahedron Lett., CODEN: TELEAY, 44(36), <2003>, 6841 - 6844; BABS-6416910

=> d ide l28 6

L28 ANSWER 6 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9607318
Chemical Name (CN): 6-dodecanoylamino-2-<(5-dodecanoylamino-1-ethoxycarbonyl-pentylaminooxalyl)-amino>-hexanoic acid ethyl ester
Autonom Name (AUN): 6-dodecanoylamino-2-<(5-dodecanoylamino-1-ethoxycarbonyl-pentylaminooxalyl)-amino>-hexanoic acid ethyl ester
Molec. Formula (MF): C42 H78 N4 O8
Molecular Weight (MW): 767.10
Lawson Number (LN): 3408, 1516, 1237, 298
File Segment (FS): Stereo compound
Compound Type (CTYPE): acyclic
Constitution ID (CONSID): 8101228
Tautomer ID (TAUTID): 9009109
Entry Date (DED): 2004/04/23
Update Date (DUPD): 2004/04/23



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	4
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1
IR	Infrared Spectrum	4
NMR	Nuclear Magnetic Resonance	4

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d rx l28 6

L28 ANSWER 6 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX

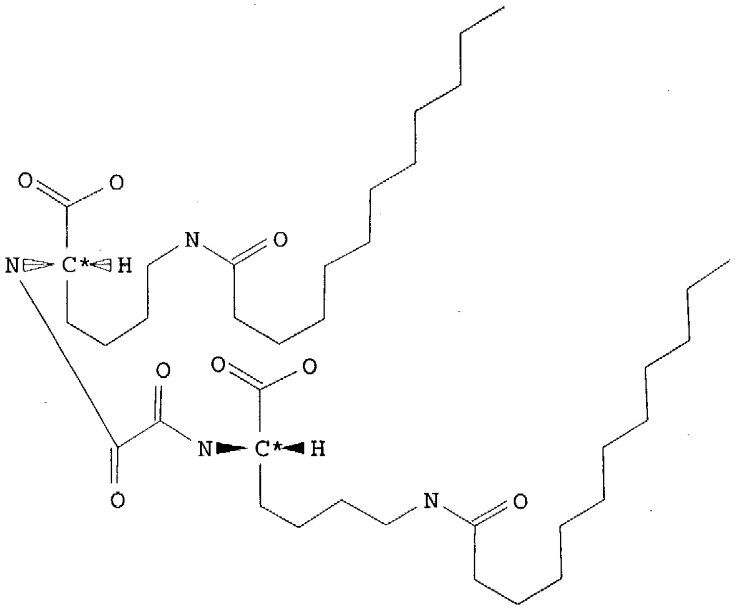
Reaction ID (.ID): 9450796
Reactant BRN (.RBRN): 8726560, 1361988
Reactant (.RCT): Nε-lauroyl-L-lysine ethyl ester, oxalyl dichloride
Product BRN (.PBRN): 9607318
Product (.PRO): 6-dodecanoylamino-2-<(5-dodecanoylamino-1-ethoxycarbonyl-pentylaminooxalyl)-amino>-hexanoic acid ethyl ester
No. of React. Details (.NVAR): 1

Reaction Details:
RX
Reaction RID (.RID): 9450796.1
Reaction Classification (.CL): Preparation
Reagent (.RGT): NEt3
Solvent (.SOL): tetrahydrofuran
Time (.TIM): 24 hour(s)
Temperature (.T): 20 Cel
Reference(s):
1. Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko; Kimura, Mutsumi; Shirai, Hirofusa; Kenji, Hanabusa, Tetrahedron Lett., CODEN: TELEAY, 44(36), <2003>, 6841 - 6844; BABS-6416910

=> d ide l28 7

L28 ANSWER 7 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Beilstein Records (BRN): 9606932
Chemical Name (CN): 2-<(1-carboxy-5-dodecanoylamino-pentylaminooxalyl)-amino>-6-dodecanoylamino-hexanoic acid
Autonom Name (AUN): 2-<(1-carboxy-5-dodecanoylamino-pentylaminooxalyl)-amino>-6-dodecanoylamino-hexanoic acid
Molec. Formula (MF): C38 H70 N4 O8
Molecular Weight (MW): 710.99
Lawson Number (LN): 3408, 1516, 1237
File Segment (FS): Stereo compound
Compound Type (CTYPE): acyclic
Constitution ID (CONSID): 8100911
Tautomer ID (TAUTID): 9008795
Entry Date (DED): 2004/04/23
Update Date (DUPD): 2004/04/23



Field Availability:

Code	Name	Occurrence
BRN	Beilstein Records	1
CN	Chemical Name	1
AUN	Autonomname	1
MF	Molecular Formula	1
FW	Formular Weight	1
LN	Lawson Number	3
FS	File Segment	1
CTYPE	Compound Type	1
CONSID	Constitution ID	1
TAUTID	Tautomer ID	1
ED	Entry Date	1
UPD	Update Date	1

This substance also occurs in Reaction Documents:

Code	Name	Occurrence
RX	Reaction Documents	1
RXPRO	Substance is Reaction Product	1

=> d rx l28 7

L28 ANSWER 7 OF 7 BEILSTEIN COPYRIGHT 2004 BEILSTEIN MDL on STN

Reaction:
RX

Reaction ID (.ID): 9450793
Reactant BRN (.RBRN): 6928812, 1361988

Reactant (.RCT): Nε-lauroyl-L-lysine, oxalyl dichloride
Product BRN (.PBRN): 9606932
Product (.PRO): 2-<(1-carboxy-5-dodecanoylamino-pentylaminooxalyl)-amino>-6-dodecanoylamino-hexanoic acid
No. of React. Details (.NVAR): 1

Reaction Details:
RX
Reaction RID (.RID): 9450793.1
Reaction Classification (.CL): Preparation
Yield (.YDT): 79 percent (BRN=9606932)
Reagent (.RGT): aq. NaOH
Solvent (.SOL): diethyl ether
Time (.TIM): 23 hour(s)
Temperature (.T): 20 Cel
Reference(s):
1. Suzuki, Masahiro; Nigawara, Tomomi; Yumoto, Mariko; Kimura, Mutsumi; Shirai, Hirofusa; Kenji, Hanabusa, Tetrahedron Lett., CODEN: TELEAY, 44(36), <2003>, 6841 - 6844; BABS-6416910

=>